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**From:** Brown, Cheryl A. [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=DD6F8A562924439AAF97CA98DDAF1E10-BROWN, CHERYL]  
**Sent:** 2/22/2017 8:03:28 PM  
**To:** Kaldy, Jim [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=754f9b040b104a52897fcf00b1b56c85-Kaldy, Jim]; DeWitt, Ted [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=1ef018b966e94a84872782ad3944431a-DeWitt, Ted]  
**Subject:** RE: stuff needed for  
**Attachments:** SSWR2.3A briefing Feb 12 2014CAB.pptx

I was thinking that some of these would be useful to help set the stage.

Ted, I'm curious of how the exceedance thing came up, it's pretty old.

Another direction would be a combination of exceedance tool (identify nutrient and DO events from temp & salinity) and stable isotope to identify nutrient inputs.

Here is another set that might be useful Jim.  
Cheryl

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**From:** Kaldy, Jim  
**Sent:** Wednesday, February 22, 2017 11:52 AM  
**To:** Brown, Cheryl A. <Brown.Cheryl@epa.gov>; DeWitt, Ted <DeWitt.Ted@epa.gov>  
**Subject:** RE: stuff needed for

Slides I have would be much more data oriented. I can try to pull something together.

jk

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Those Who Cannot Remember the Past Are Condemned to Repeat It. (George Santayana)

Cuyahoga River Fire, Love Canal, Flint Michigan Lead, Kingston Coal Fly Ash, Exxon Valdez, New Carissa, Deep Water Horizon, Dioxin, DDT, Agent Orange, Valley of the Drums, Centralia PA Coal fire, and so many more...

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**From:** Brown, Cheryl A.  
**Sent:** Wednesday, February 22, 2017 11:48 AM  
**To:** DeWitt, Ted <DeWitt.Ted@epa.gov>

**Cc:** Kaldy, Jim <[Kaldy.Jim@epa.gov](mailto:Kaldy.Jim@epa.gov)>

**Subject:** RE: stuff needed for

This set of slides might be of use.  
Obviously more would be needed but some good things to get started.  
I'll look for others to pull up.

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**From:** DeWitt, Ted

**Sent:** Wednesday, February 22, 2017 11:34 AM

**To:** Brown, Cheryl A. <[Brown.Cheryl@epa.gov](mailto:Brown.Cheryl@epa.gov)>; Kaldy, Jim <[Kaldy.Jim@epa.gov](mailto:Kaldy.Jim@epa.gov)>

**Cc:** DeWitt, Ted <[DeWitt.Ted@epa.gov](mailto:DeWitt.Ted@epa.gov)>; Thornhill, Alan <[thornhill.alan@epa.gov](mailto:thornhill.alan@epa.gov)>

**Subject:** FW: stuff needed for

**Importance:** High

Jim & Cheryl,

Alan needs to present 4-slide overviews of 5 WED research projects at an all-DD's meeting next week. Of the several research topics that I nominated, he selected one from each of you. See below for what Alan needs. I am available to help with this if you would like; Alan too will want to talk with you about your work too. Could you please send me what slides you have about each of these projects, and I'll get started on the summary slides...unless you'd prefer to do that. We need to get a solid draft done this week. Sorry for the short notice.  
Ted

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**From:** Thornhill, Alan

**Sent:** Wednesday, February 22, 2017 11:21 AM

**To:** DeWitt, Ted <[DeWitt.Ted@epa.gov](mailto:DeWitt.Ted@epa.gov)>

**Subject:** RE: stuff needed for

For the purposes of this exercise, I'd like to work with these two from your team:

- Jim & Cheryl's mesocosm study showing that increased temp. + nutrient enrichment leads to increased wasting disease in native seagrass
- Cheryl's modeling demonstrates that estuarine water temperature + nitrate conc. predicts whether nitrogen in an estuary is oceanic or terrestrially sourced

Here's what I ultimately need:

For each topic, I need 4 slides total...one each that address (and is titled) **Environmental Issue, Research Problem, Research Description/Results, and Impact**

Ideally, we pull these from existing PPTs and just massage to get honed in on the specific slide title topic. Best if I talk to each person so I really own the content!

How do you suggest we proceed?

A

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**From:** DeWitt, Ted

**Sent:** Friday, February 17, 2017 4:59 PM

**To:** Ringold, Paul <[Ringold.Paul@epa.gov](mailto:Ringold.Paul@epa.gov)>; Thornhill, Alan <[thornhill.alan@epa.gov](mailto:thornhill.alan@epa.gov)>; WED Mgmt <[WED\\_Mgmt@epa.gov](mailto:WED_Mgmt@epa.gov)>

**Cc:** Kosoff, Marguerite <[Kosoff.Marguerite@epa.gov](mailto:Kosoff.Marguerite@epa.gov)>

**Subject:** RE: stuff needed for

Candidates from Newport:

- 1) Jim Kaldy's seagrass stress-response research & modeling used by WA DNR to identify restoration sites in Puget Sound
- 2) Jim's work on physiological ecology of invasive seagrass used to develop invasion risk model for spread of that species
- 3) Jim & Cheryl's mesocosm study showing that increased temp. + nutrient enrichment leads to increased wasting disease in native seagrass
- 4) Cheryl's modeling demonstrates that estuarine water temperature + nitrate conc. predicts whether nitrogen in an estuary is oceanic or terrestrially sourced
- 5) Steve Pacella's work showing that nutrient enrichment can accelerate the severity of acidification in estuarine waters
- 6) Walt Nelson's work to identify condition threshold values for seagrass epiphyte indicator of nutrient enrichment in coastal systems

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**From:** Ringold, Paul

**Sent:** Friday, February 17, 2017 3:30 PM

**To:** Thornhill, Alan <[thornhill.alan@epa.gov](mailto:thornhill.alan@epa.gov)>; WED Mgmt <[WED\\_Mgmt@epa.gov](mailto:WED_Mgmt@epa.gov)>

**Cc:** Kosoff, Marguerite <[Kosoff.Marguerite@epa.gov](mailto:Kosoff.Marguerite@epa.gov)>

**Subject:** RE: stuff needed for

Candidate research projects for five minute talks

- 1) NARS Support or NARS
- 2) Amanda's Carbon Sequestration work
- 3) Stream/Lake Cat
- 4) John Stoddard's Phosphate Trends work
- 5) Jana's Nitrate Groundwater work
- 6) Jana's N and Ecosystem Services work
- 7) Joe's coldwater refugia work

If you'd like to consider any of those let's get together with the principals and collect the information that would be a useful starting point for this work.

Paul

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**From:** Thornhill, Alan

**Sent:** Tuesday, February 14, 2017 2:25 PM

**To:** WED Mgmt <[WED\\_Mgmt@epa.gov](mailto:WED_Mgmt@epa.gov)>

**Cc:** Kosoff, Marguerite <[Kosoff.Marguerite@epa.gov](mailto:Kosoff.Marguerite@epa.gov)>

**Subject:** stuff needed for

Here are the three items I will need help with before the end of next week (recall these are requested for the division director retreat the week of 27 Feb).

1. 5 min overview of 5 different WED research projects (we choose...those that tell a good story)
  - a. Make 1-2 of them social science connected if possible
2. Summary of collaborations with states/other feds, etc
3. Green lab innovations summary

At the mgr meeting next Tuesday (2/21), let's discuss:

- Your suggestions for #1—including any SS related topics. I will need to be able to tell the stories when I am at the DD meeting, so let's keep it simple and pick things that are already well developed into short, clear presentations.

- Your compiled lists of #2 – send to Paul G and he can make a combined list.
- Tom or Margo, please get Primo to summarize #3 by the mgr meeting

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**Alan D. Thornhill, Ph.D.**

**Director, Western Ecology Division**

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